

In the Application of: Hing

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In the Abstract:

Please delete the abstract and replace it with the following:

An apparatus and a method for photo-electric measurement is included; the apparatus comprises photo-electric conversion devices and an optical system which is modularly expandable in order to acquire electromagnetic radiation from a line or area of any desired size on an object. The optical system preferably separates the electromagnetic radiation modularly into a plurality of smaller segments and projects electromagnetic radiation corresponding to the smaller segments onto individual photo-electric conversion devices and sensor electronics related to said photo-electric conversion device(s). This enables the operating mode and functionality of said photo-electric conversion device(s) to be defined and changed in real-time, whereby functions such as the readout sequence of pixels and unlimited flexibility of pixel binning in two dimensions are fully programmable, and the photo-electric conversion device(s) can operate and/or be controlled independently and/or simultaneously.